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Medical E-Consultation System (MECS)

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Fulfillment of the requirements for Master Degree
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By
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ABSTRACT

This study aims at establishing a medical consultation system using web-based tools such as PHP and MYSQL. The development of the system will be associated with the linking the website to a knowledge base rather than an ordinary database, using some popular framework like MYSQL. In addition, some expert system techniques are included through the application of intelligent database terms during the matching process of the symptoms provided by users. Features of the system include providing survey-based online diagnoses for patients, such as that produced by doctors. Furthermore, the system will provide information about various diseases, presenting them in the format of online materials. Moreover, it will also provide an online forum where specialists, trainees and patients can interact with each other using questions-answers information sharing technique. On the other hand, users of the system will be able to take advantage of online system-access. Consequently, the system will be meeting the user needs through better understanding of system requirements from the developers' perspectives according to the user needs in the correct and proper way.

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With all regards to UUM Academic staff... ..

Ahmed Shdefat 2010,

DEDICATION

In the name of Allah, most merciful, most gracious. Praise be to Allah, lord of the worlds and peace the almighty. Blessing be upon our master Mohammad, the honest and truthful. O Allah! we have no knowledge except what you have taught us, you are the all-knower and the all- wise. O Allah! Teach us what benefits us and benefit us from what you've taught us and enhance our knowledge. Show us the true as true and enable us to follow it and show us the falsehood as falsehood and enable us to avoid it. Make us from those who listen to the saying and follow the best thereof, and make us by your mercy from your righteous worshippers. Bring us out from the darkness of ignorance and illusion to the light of knowledge and science and from mires of vain desires to heavens of pious acts.

Furthermore, I would like to express my thanks to the source that gives me inspiration in this life, which is my family, specially my father and mother, for their continuous support, start from my childhood until now, along with health, financial, mental, moral care and more. Without their precious encouragement and support I could not finish my study.

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CHAPTER ONE

INTRODUCTION

1.1 Introduction

Since human beings are all potential patients. Unfortunately, none of them can assume that good health is indefinitely granted. Their visits to the doctor can be either planned on a regular basis or unplanned as in cases of unexpected health conditions. Whatever the case, sooner or later all of them will need to communicate with a physician regarding their health state. Their well-being relies, to a variable extent, on the successful accomplishment of such communication. Therefore, to gain high quality communication with doctors, already available recent technologies should be utilized.

The dialogue between the physician and the patient during the consultation has always been fundamental in the practice of medicine. With the introduction of Internet, new opportunities have been provided for communication between a physician and a patient through internet-based consultation. Internet-based medical consultation might have an impact on individuals as well as on health care providers. Thus, it is important to understand the opportunities and the limitations of this new method, the usability of such a service, and the perspectives of the physicians carrying out the consultations.

The contents of
the thesis is for
internal user
only

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